

SECTION VI.—BIBLIOGRAPHY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

Bancroft, Wilder D[wight].

Some properties of fog. 2 tables. 26 cm. (Reprinted from the *Journal of physical chemistry*, vol. 22, no. 5. May, 1918. p. [309]-336.)

Brotherton, B[ertram].

British rainfall, with special reference to Worcestershire. Worcester. 1917. tables. 22 cm. (Reprinted from *Transactions of the Worcestershire naturalists' club* for the year ending 31st December, 1916. p. 203-221.)

Flora S[nowden] D[wight].

Some common fallacies about Kansas weather. 23 cm. (Excerpted from the *Transactions of the Kansas academy of science*, vol. 28. 48th and 49th Annual meeting, Topeka, 1916 and 1917. Topeka. 1918. p. 55-60.)

Great Britain. Meteorological office.

Professional notes, no. 1-3. London. 1918. 3 v. charts. tables. 24 $\frac{1}{2}$ cm. M. O. 232a-c. Contents: 1. On the interrelation of wind direction and cloud amount at Richmond, by David Brunt. 2. Notes on examples of katabatic wind in the valley of the upper Thames . . . at Benson, Oxon, by E. V. Newnham. 3. Incidence of fog in London 31st, 1918, by C. E. P. Brooks.

The weather of the British coasts . . . London. 1918. viii, 158 p. illus. plates. charts (part. fold.). tables (part. fold.). diagrs. 24 cm. M. O. 230.

Japan. Central meteorological observatory.

Annual report . . . Meteorological observations in Japan for the year 1916. Tōkyō. 1918. cover-title, p. 1, 387 p. fold. map. tables. 30 cm.

Mercanton, P[aul] L[ouis].

La variation annuelle moyenne de la température de l'air à Lausanne, de 1887 à 1916. Lausanne. 1918. cover-title, 8 p. fold. chart. tables. 21 $\frac{1}{2}$ cm. (*Bulletin de la Société vaudoise des sciences naturelles*. Vol. 52, no. 194.)

Minas Geraes. Serviço de meteorologia.

. . . Dados meteorológicos. 1915 . . . [Bello Horizonte], 1918. 59 p. charts. tables. 32 $\frac{1}{2}$ x 34 $\frac{1}{2}$ cm.

National research council. Division of geology and geography.

Introductory meteorology. New Haven. 1918. xii, 149 [1] p. illus. plates. charts. tables. 23 $\frac{1}{2}$ cm. Bibliography, p. [147]-149. "Prepared by the staff of the United States Weather Bureau."

Salmon, S. C.

Some factors in the winterkilling of grain crops. 23 cm. (Excerpted from the *Transactions of the Kansas academy of science*, vol. 28. 48th and 49th Annual meeting, Topeka, 1916 and 1917. Topeka. 1918. p. 129-131.)

Shaw, A. Norman.

Relative humidity. Ottawa. 1917. cover-title. 3 tables. 25 cm. (Reprinted from the *Transactions of the Royal society of Canada*. Ser. 3, vol. 11. 1917. p. 121-127.)

Spain. Observatorio central meteorológico.

Resumen de las observaciones efectuadas en las estaciones del Servicio meteorológico español durante el año 1916. [Volumen] 12. Madrid. 1918. cii, 1, 570 [4] p. fold. map. tables. 24 cm. At head of title: Dirección general del Instituto geográfico y estadístico . . .

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. F. TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Aeronautical journal. London. v. 22. September, 1918.

Turner, Charles C. The structure of gusts. p. 285-286. [Abstract p. 460 this issue.]

Exner, F. M. von. An Austrian memorandum on a meteorological service for the air service in peace time. p. 299-300. [Abstr. from *Oesterri. Flug-Zeitschrift*.]British astronomical association. *Journal. London. v. 28. June, 1918.*

Gibbs, George J. The green flash. p. 255-258. [Describes numerous telescopic observations. Includes sketches.]

Engineering news-record. New York. v. 81. November 7, 1918.

Snow removed by various methods at Milwaukee. p. 857-858.

Great Britain. Meteorological office. *Geophysical memoirs. London. no. 12. 1918.*

Shaw, Napier. The travel of circular depressions and tornadoes and the relation of pressure to wind for circular isobars. p. 19-44.

Journal of geology. Chicago. v. 26. September-October, 1918.

Emerson, F. V. Loess-depositing winds in Louisiana. p. 532-541.

London, Edinburgh and London philosophical magazine. London. v. 36, October, 1918.

Strutt, R. J. The scattering of light by air molecules. p. 320-321.

Nature. London. v. 102. September 26, 1918.

Dines, J. S. The dynamics of cyclonic depressions. p. 69. [Review of paper by Shaw.]

Royal meteorological society. Quarterly journal. London. October, 1918.

Fairgrieve, James. Suggestions as to the conditions precedent to the occurrence of summer thunderstorms, with special reference to that of June 14, 1914. p. 245-252. [Abstract.]

Brooks, C. E. P. Continentality and temperature—Second paper: The effect of latitude on the influence of continentality on temperature. p. 253-270.

Chapman, S. The lunar atmospheric tide at Greenwich, 1854-1917. p. 271-280.

Christy, Miller. The audibility of the gunfire on the continent at Chignal, near Chelmsford, during 1917. p. 281-284.

Whipple, F. J. W. Seasonal variation in the audibility of distant gunfire. p. 285-289.

Mossman, R. C. Notes on the rainfall of Chile. p. 294-302.

Mossman, R. C. Note on summer climate near the east coast of Graham Land. p. 302.

Brooks, C. E. P. The meteorology of Belize, British Honduras, 1888-1917. p. 302-306.

Royal astronomical society of Canada. Journal. Toronto. v. 12. September, 1918.

"Shadow bands" at a total eclipse of the sun. p. 377-379.

Royal society of Edinburgh. Proceedings. Edinburgh. v. 38. pt. 2. 1917-1918.

Davison, Charles. The sound waves and other air waves of the East London explosion. p. 115-129.

Scientific American. New York. v. 119. November 30, 1918.

Russell, Henry Norris. The heavens in December, 1918; lights and shadows, astronomic and aeronautic. p. 440. [Describes "Cellini's halo" (Heiligenschein) seen around shadow of aeroplanes as cast on ground.]

- Scientific American supplement. New York. v. 86. November 9, 1918.*
- Rondeleur.** The theory of cyclones and the method of foretelling them. p. 300. [Abstract from *Annales Hydrographiques*.]
- Seismological society of America. Bulletin. Stanford university. June-September, 1918.*
- Townley, Sidney D.** The San Jacinto earthquake of April 21, 1918. p. 45-62.
- Rolfe, Frank, & Strong, A. M.** The earthquake of April 21, 1918, in the San Jacinto mountains. p. 63-67.
- Arnold, Ralph.** Topography and fault system of the region of the San Jacinto earthquake. p. 68-73.
- MacDonald, Berhard.** Remarks on the Sonora earthquake—its behavior at Tepic, Sonora, etc. p. 74-78.
- Reid, Harry Fielding.** The starting points of earthquake vibrations. p. 79-82.
- Klotz, Otto.** Analysis of earthquake waves. p. 83-87.
- Jagger, T. A., & Romberg, Arnold.** An experiment in teleseismic registration. p. 88-89.
- Académie des sciences. Comptes rendus. Paris. Tome 167. 1918.*
- Véronnet, A.** Sur la limite et l'extension d'une atmosphère. Application aux planètes. p. 528-531. (Oct. 7.)
- Académie des sciences. Comptes rendus. Paris. Tome 167. 1918—Con-*
- Véronnet, A.** Limite et composition de l'atmosphère terrestre. Aurores boréales, bolides, étoiles filantes. p. 636-638. (Oct. 28.)
- Archives des sciences physiques et naturelles. Genève. 4 période. v. 46. September, 1918.*
- Gautier, Raoul, & Rod, Ernest.** Moyennes de 10 à 20 ans pour les éléments météorologiques observées aux fortifications de Saint-Maurice 1908-1917 et 1898-1917. p. 151-176.
- Astronomie. Paris. 2 année. Octobre 1918.*
- Le climat de la région de Paris.** p. 359-360. [Gives monthly and annual mean temperatures at Parc St. Maur and Juvisy. 1891-1917.]
- Reale accademia dei Lincei. Atti. Roma. v. 28. 1918.*
- Amerio, Alessandro.** Pireliometro integrale. p. 288-293. (21 aprile.)
- Agamennone, G.** Contributo alla teoria del pendolo orizzontale. p. 326-331. (5 maggio.)
- Hemel en dampkring. Den Haag. 16 jaarg. September 1918.*
- Visser, S. W.** De draagwijdte van den donder. p. 65-70.
- Pinkhof, M.** De halo van Heemskerk en Barents. p. 70-73.